Incubator with UV Sterilization

INSTRUCTION MANUAL

Model: 90L-UVC, 240L-UVC, 450L-UVC, 760L-UVC

Thank you for choosing a Vivarium Electronics® Incubator. This Incubator has been specially designed with:

- Robust new heating element
- Digital Thermostat
- Circulation fan(s)
- UVC air sterilization
- Easy glide removeable shelving

This manual applies to the incubator models listed on the front cover.

Please read this entire manual before use!

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1. Important Safety Notes:

Warnings	To reduce the risk of fire, electrical shock, or injury when using your incubator, follow these basic precautions:

- Read all instructions before using the Incubator.
- Keep the children away from the Incubator. **Never allow children to operate, play with, or crawl inside the incubator**.
- Never clean Incubator parts with flammable fluids. The fumes can create a fire hazard or explosion.
- If Incubator stops working, please contact Vivarium Electronics® Customer support at inquiry@reptilebasics.com
- If the power cord is damaged, find a professional technician or electrician to replace. Never do it by yourself.
- Make sure that the unit is unplugged while cleaning, moving or repairing.
- Keep ventilation openings in the incubator clear of obstruction.
- Do not use electrical appliances inside the incubation chamber of the appliance unless they are recommended by the manufacturer.

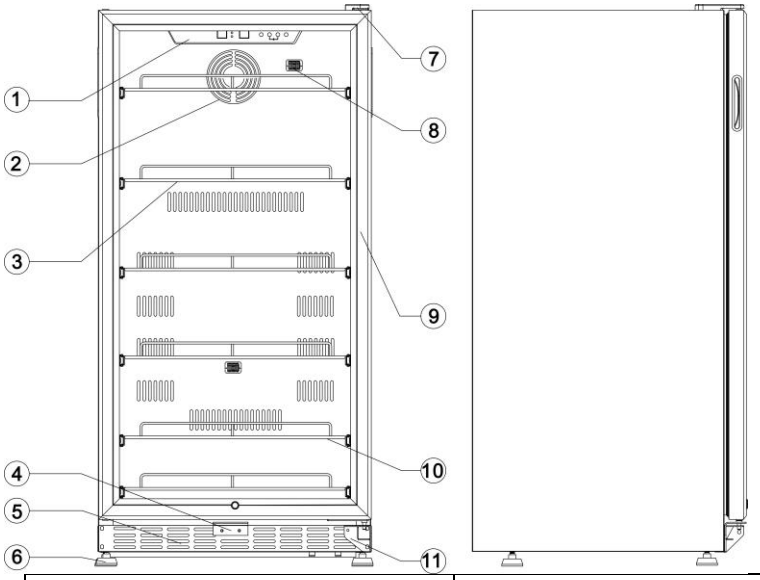
-Save these instructions-

Precautions:

- To avoid damage of door seal, please make sure the door is fully open while pulling out the removable shelves.
- Place the Incubator near an electrical outlet (120VAC only).
- Do not move the Incubator while in use
- **If disposing of the Incubator ALWAYS remove the door for child safety.**
- **Cleaning and user maintenance should not be done by children without supervision**.
- If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified person to avoid a hazard.

2. Incubator Construction

1. Structure diagram：



1-Control Panel	**7-Upper Hinge**
2-Fan	**8-Sensor**
3-Large Shelf	**9-Glass Door**
4-Locking Hook	**10-Small Shelf**
5-Air Outlet Grille	**11-Lower Hinge**
6-Adjustable Foot	

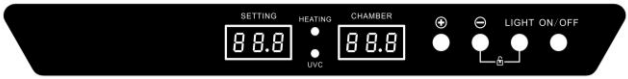
3. Installation

Before Using Your Incubator remove all inner and outer packing materials

Installation:

- Your Incubator needs to breathe! Leave at least 6 inches of airflow around all sides.
- Place your Incubator on a floor that is strong enough to support it when it is fully loaded. To level your Incubator, adjust the front leveling feet at the bottom of the Incubator.
- **Locate the Incubator away from direct sunlight and sources of heat (stove, heater, radiator, etc.)! Direct sunlight may affect the acrylic coating. Heat sources, including sunlight from a nearby window, may cause your Incubator to overheat.** Ideally the room temperature will be at least 10°F+ LOWER than your set point. Extremely cold ambient temperatures may also cause the unit not to perform properly.
- Avoid locating the unit in moist or wet areas.
- Plug it into the proper power socket. Make sure that the shape and voltage of the socket is consistent with the nameplate on the back of the unit.
- Allow the incubator to operate 3 or more days prior to use so it can properly stabilize and be tested

4. Display Panel and Operating Instructions



Control Panel

· **UVC：** This indicator light illuminates when the sterilization function inside the cabinet is activated.

· **HEATING:** This Indicator light indicates power to the heat element is “on”.

· **SETTING**: Displays the temperature you set. The range of temperature setting is 41℉~104℉. The factory set temperature is 77℉

· **CHAMBER:** Displays the actual temperature inside the cabinet.

Button Operation

· After the power is turned on, if no button is pressed for 60 seconds, the system will automatically lock. To unlock, press and hold the “DOWN” (⊖) button and the “LIGHT” button simultaneously for 5 seconds. A “beep” sound will indicate that the lock has been successfully released. Once unlocked, you can set the temperature and turn the unit on or off.

· **ON/OFF Button**: Power control button. Press once to turn the incubator power “on”, press again to turn incubator power “off”.

· **LIGHT Button**: Cabinet light control button. Press once to turn the light on continuously, press again to turn it off.

· **+ / – Buttons**: Temperature setting buttons. Each press increases or decreases the temperature setting by 0.1℉, with an adjustable range of 41℉~104℉. When this button is long-pressed, the set temperature changes in increments of 1℉

UVC Sterilization

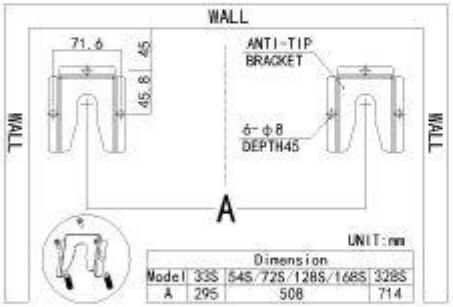
When the unit is powered off, press the light button to enter the P01/P02 settings.

P01: Interval between sterilization cycles (adjustable from 1–24 hours)

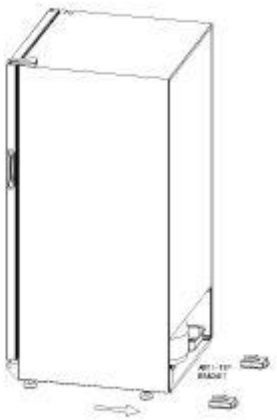
P02: Sterilization run time (adjustable from 0–60 minutes).

Default settings: Runs every 12 hours for 20 minutes.

For the installation of anti-tipping accessories, please refer to the images below.



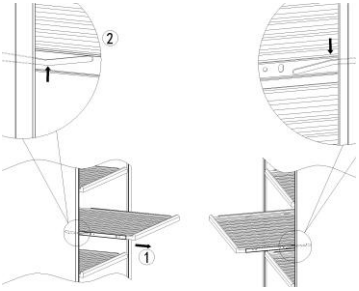
Dimension				
Model	33S	54S/72S/128S/168S	328S	
A	295	508	714	



Shelf Change

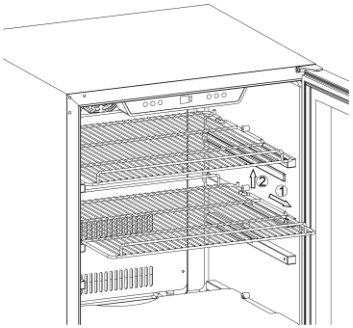
Use the following procedure if needing to pull out or change the shelves:

Guide rail series : **Models 240L-UVC, 450L-UVC, 760L-UVC**



First, remove all items from the shelf and pull the shelf out to its limit. Then press up on the left plastic lever of sliding rail while pressing down on the right plastic lever. While holding the levers, pull the shelf out.

Guide rail-less series : **Model 90L-UVC**



First, remove all the items from the shelf, pull the shelf out until the notch is aligned with the limit column, then lift it up to take out the shelf.

Reversing the door swing of your incubator

The unit is delivered to you with the door opening from the left side (hinge on right side). The door of the incubator is capable of opening from either the left or right side . To reverse the door swing of your cabinet and open from the right side, please follow the instructions and diagram as follows.

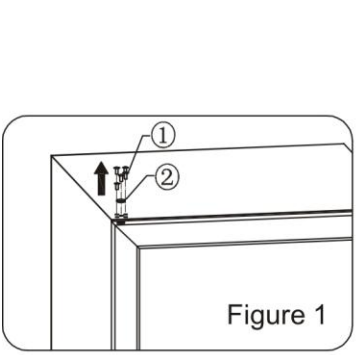


Figure 1

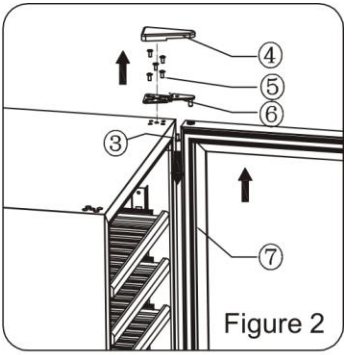


Figure 2

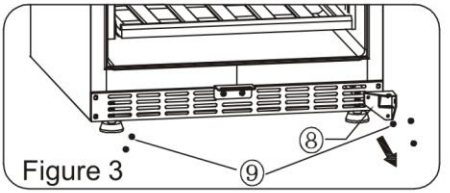


Figure 3

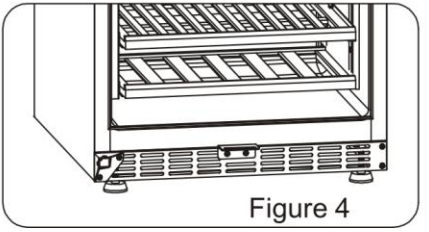


Figure 4

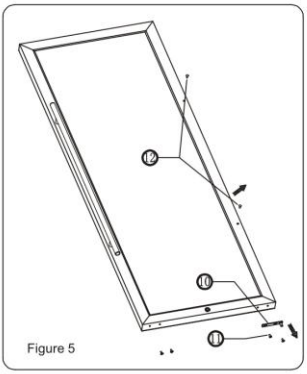


Figure 5

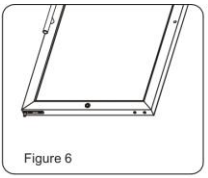


Figure 6

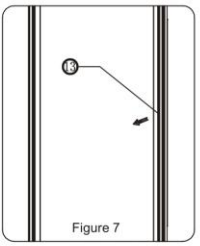


Figure 7

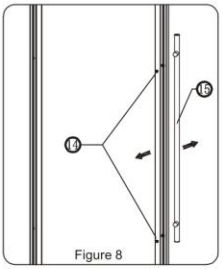


Figure 8

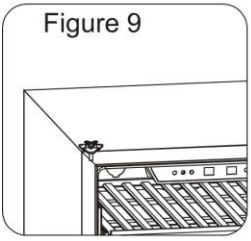


Figure 9

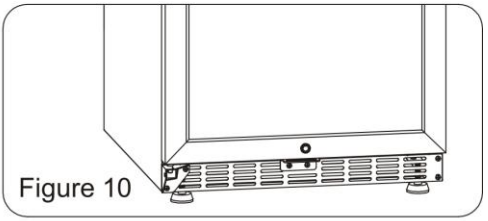


Figure 10

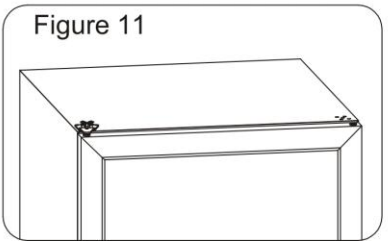


Figure 11

NOTE: All parts removed must be saved to allow the door swing to be reversed

1.Use a sharp tool to pry open the decorative cover on the top of the cabinet and the cap of door spindle carefully. (Fig 1)

2. Open the door to an angle, unscrew the screw of the door hinge cover, remove the cover of the upper door hinge; then unscrew all the screws on the upper door hinge. Be careful to hold the glass door firmly after removing the screw and take off the door (Fig 2).

3. Remove the screw of lower door hinge and the left side screw of the front vent (Fig 3) and then install the lower door hinge at the designated position on the opposite side (Fig 4).

4.Remove the screw of door handle, then remove the bottom screw of left side of the door and remove the lower supporter of the door (Fig 5). Install the lower support of the door to the opposite side (Fig 6).

5.Pull open middle section of the door gasket, then it will come out the handle screw hole (Fig 7). remove the handle and install it on the opposite side (Fig 8).

6.Install the upper door hinge to the opposite side and tighten the screws. (Fig 9).

7.Set glass door shaft to aim the shaft of lower door hinge (Fig 10) and then aim the upper door hinge (Fig 11) adjust the door and the cabinet is aligned and leveled, then tighten all the lock screws.

5. Care and Maintenance

Cleaning Your Incubator Cabinet

- Turn off the power, unplug the appliance, and remove all items including shelves and rack.
- Wash the inside surfaces with warm water and baking soda solution. The solution should be about 2 tablespoons of baking soda with a quart of water.
- Wash the shelves with a mild detergent solution.
- Wring excess water out of the sponge or cloth when cleaning area of the controls, or any electrical parts.
- Wash the outside cabinet with warm water and mild liquid detergent. Rinse well and wipe dry with a clean, soft cloth.

Power Failure

- Most power failures are corrected within a few hours and will not affect the temperature of your appliance if you minimize the number of times the door is opened. If the power is going to be off for a longer period of time, you need to take the proper steps to protect your contents.

Vacancy time

- **Short vacancy:** If the incubator turned off for up to three weeks, no action is generally required
- **Long vacancy:** If the incubator will not be used for several weeks or months, remove all items and turn off the appliance. Clean and dry the interior thoroughly to prevent odors and mold. Leave the door open slightly all the time if necessary.

Moving Your Incubator

- Remove all items.
- Securely tape down all loose items (shelves) inside your incubator.
- Turn the adjustable legs all the way up to the base to avoid damage.
- Keep the door shut.
- Be sure the appliance stays secure in the upright position during transportation.

Also protect outside of incubator with a blanket, or similar item

6. Troubleshooting

You can solve many common incubator problems easily. Try the suggestions below as well as reading Tips and Suggestions section of this manual to see if you can solve the problem before contacting customer service.

TROUBLESHOOTING GUIDE

(a) PROBLEM	(b) POSSIBLE CAUSE
Incubator does not operate.	Not plugged in. The appliance is turned off. The circuit breaker tripped or a blown fuse.
Incubator is not warm enough.	Check the temperature control setting. External environment may require a higher setting. The door is opened too often. The door is not closed completely. The door gasket does not seal properly.

Turn on and off frequently.	The room temperature is hotter than normal. A large amount of contents has been added to the incubator. The door is opened too often. The door is not closed completely. The temperature control is not set correctly. The door gasket does not seal properly.
The light does not work.	Not plugged in. The circuit breaker tripped or a blown fuse. The LED's have burned out. The light button is "OFF".
Vibrations- (Cooling models only).	Check to assure that the incubator is level.
The incubator seems to make too much noise.	The ratting noise may come from the flow of the compressor (cooling models), which is normal. Contraction and expansion of the inside walls may cause popping and crackling noises. The incubator is not on level. Circulation fan has an obstruction.
The door will not close properly.	The incubator is not level. The door was reversed and not properly installed. The gasket is dirty. The shelves are out of position.

7. Tips and Suggestions

Your new incubator features a very well insulated cabinet, highly efficient heat element and precise thermostatic control. If set up properly the incubator will hold very steady and consistent temperatures. One of the most common mistakes with setting up an incubator of this type is having external heat sources not under thermostat control and/or too warm a room temperature. One of the most important factors affecting the proper function of your incubator is a room temperature roughly 10°F lower than your desired incubator set point. That will provide you with the most safety for your valuable eggs and the most efficient operation of your incubator. **Often, a dedicated reptile room is NOT the best location. Remember- the incubator thermostat can only control the heat element inside the incubator!** Adding additional circulating fans, lights, etc. can all elevate the cabinet temperature of your incubator uncontrollably.

ALWAYS set up your incubator several days before you will need it. At our facility we always prepare several incubation containers (with the mixed media of your preference) and place them in the incubator well ahead of time. Set your desired temp and let the unit run for several hours to stabilize before adjusting. Once your incubator cabinet temp has reached your setpoint temp always check the temps inside your actual incubation containers as well. Often the temp inside the container will be a couple of degrees different than the chamber temp so adjust as needed. That is normal and due mostly to the cooling effect of evaporation from the incubation media. While seldom a real issue, better to be prepared rather than surprised!

There is also heat generated by your eggs! As the embryos develop and eggs get closer to hatching the temperature in an incubator will often climb. We have seen this especially true with larger eggs such as Ball Pythons or Burmese Pythons and heavily packed incubators. **This is why it is VERY important to have enough temperature differential between your room**

and incubator set point! You always want the heat element of the incubator doing the work.

The UVC air sterilization feature in your new incubator will help to mitigate the spread of any mold, mildew or fungal spores. This can be helpful if you have one or more eggs spoil during incubation. Slowing the spread of these spores can be very valuable. We recommend the factory settings for the UVC unit be left at default but can be increased or decreased as conditions require.

Your new incubator is equipped with adequate circulation fans as well as fresh air inlets. For better humidity retention inside your incubation containers, we also recommend a small container (8-quart plastic shoebox works well) filled half full of water. Refill as the water evaporates. This will help maintain good ambient humidity in the incubator which in turn will slow drying of your incubation media. DO NOT add additional fans!

8. Incubator Specifications

Model No.	90L-UVC	240L-UVC	450L-UVC	760L-UVC
Net Volume	90L	240L	450L	760L
Heating Power	120W	240W	240W	240W
Temperature Range	41℉~104℉	41℉~104℉	41℉~104℉	41℉~104℉
NET Weight	84 lbs. (38 KG)	128 lbs. (58 KG)	190 lbs. (84 KG)	332 lbs. (150KG)
Product Dimension W*D*H(CM)	38*60*88	59.5*60*122	59.5*680*180	82*70*202

Limited One-Year Warranty

Reptile Basics dba Vivarium Electronics warrants that this reptile egg incubator is free from defects in materials and workmanship under normal use and service for a period of **one (1) year** from the original date of purchase.

During the warranty period, Reptile Basics will, at its sole discretion, repair or replace any defective parts and provide the labor necessary to restore the incubator to proper working condition at no charge to the original purchaser. Replacement parts may be new or refurbished and will be of equal or greater performance than the original components. Due to the size and nature of the product Reptile Basics may provide replacement parts to the original purchase when reasonable the user can replace the defective parts.

Warranty Coverage

This warranty covers defects resulting from:

- Defective materials.
- Defective workmanship.
- Failure of electrical or mechanical components under normal operating conditions.

Warranty Exclusions

This warranty does not cover damage or failures resulting from:

- Misuse, abuse, neglect, or improper installation.
- Unauthorized modifications or repairs.
- Accidents, fire, flood, lightning, or other acts of nature.
- Improper voltage or power surges.
- Normal cosmetic wear that does not affect operation.

The customer is responsible for shipping the product to Reptile Basics for warranty evaluation unless otherwise authorized. Return shipping for approved warranty repairs within the United States will be paid by Reptile Basics.

Limitation of Liability

THIS WARRANTY IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED FOR THIS PRODUCT. TO THE MAXIMUM EXTENT PERMITTED BY LAW, REPTILE BASICS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL REPTILE BASICS BE LIABLE FOR ANY INDIRECT, INCIDENTAL, SPECIAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF REPTILE EGGS, LOSS OF ANIMALS, LOSS OF BUSINESS, OR ANY OTHER DAMAGES ARISING FROM THE USE OF OR INABILITY TO USE THIS PRODUCT, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on implied warranties or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

To obtain warranty service, contact Reptile Basics with your proof of purchase and a description of the problem.